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L7: Entry 1 of 2

File: JPAB

Jan 13, 1995

PUB-NO: JP407011119A

DOCUMENT-IDENTIFIER: JP 07011119 A

TITLE: FLAME-RETARDANT THERMOPLASTIC RESIN COMPOSITION

PUBN-DATE: January 13, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

WATANABE, MAKOTO

ISHIGA, SHIGETO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MONSANT KASEI KK

APPL-NO: JP05157295

APPL-DATE: June 28, 1993

INT-CL (IPC): C08 L 69/00; C08 L 69/00; C08 K 5/523; C08 L 55/02

ABSTRACT:

PURPOSE: To obtain the subject composition excellent in processability, moldability, and material properties such as heat and impact resistances.

CONSTITUTION: This resin composition comprises 40-90 pts.wt. aromatic polycarbonate resin (PC resin), 5-40 pts.wt. graft copolymer resin (ABS resin), and 1-30 pts.wt. aromatic diphosphate represented by the formula. It may optionally contain 0.1-1.0 pt.wt. PTFE. In the formula, R1, R2, R3, and R4 each independently is a 1-3C alkyl and Y is phenylene or biphenylene.

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L7: Entry 2 of 2

File: DWPI

Jan 13, 1995

DERWENT-ACC-NO: 1995-085589

DERWENT-WEEK: 199512

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TITLE: Fire resistant thermoplastic resin compsn. giving mouldings of high resistance to shock, heat etc. - contg. aromatic carbonate! resin, graft copolymer resin, and aromatic di:phosphate.

PATENT-ASSIGNEE:

ASSIGNEE

MONSANTO KASEI CO

CODE

MITT

PRIORITY-DATA: 1993JP-0157295 (June 28, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 07011119 A</u>	January 13, 1995		011	C08L069/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP07011119A	June 28, 1993	1993JP-0157295	

INT-CL (IPC): C08 K 5/523; C08 L 55/02; C08 L 69/00

ABSTRACTED-PUB-NO: JP07011119A

BASIC-ABSTRACT:

Compsn. contains (1) 40-90 wt. % of aromatic polycarbonate (PC) resin (A), 5-40 wt. % of a graft copolymer resin (B) composed of a conjugate diene rubber polymer (a) of 0.15-0.35 microns in wt. average grain size, an aromatic vinyl monomer (b), a vinyl cyanide monomer (c) and opt. a vinyl monomer (d) copolymerisable with the polymer (a) and the monomers (b) and (c) and 1-30 wt. % of an aromatic diphosphate (C) of formula (I).

In (I) R1, R2, R3, R4 = 1-3C alkyl gp; Y = phenylene gp. or biphenylene gp.

Fire resistant thermoplastic resin compsn. (2) contains 40-90 wt. % of the PC resin (A), 5-40 wt. % of the graft copolymer resin, (B) 1-30 wt. % of the diphosphate (C) and 0.1-10 wt. % of polytetrafluoroe thylene (D).

USE/ADVANTAGE - In mouldings such as car parts, electrical parts or machine parts. The compsns. can compose mouldings high in shock resistance, heat resistance and mouldability.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: FIRE RESISTANCE THERMOPLASTIC RESIN COMPOSITION MOULD HIGH RESISTANCE SHOCK HEAT CONTAIN AROMATIC POLYCARBONATE RESIN GRAFT COPOLYMER RESIN AROMATIC DI PHOSPHATE

DERWENT-CLASS: A12 A23 E11 X12

CPI-CODES: A04-B01B; A04-C01A; A04-D03A; A04-E08A; A05-E06A; A07-A04D; A08-F03;

E05-G08;

EPI-CODES: X12-E02B;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

B515 B702 B713 B720 B815 B832 G011 G012 G013 G014

G019 G100 M1 M111 M121 M129 M148 M149 M210 M211

M212 M213 M214 M215 M216 M231 M232 M233 M240 M283

M320 M411 M510 M520 M533 M540 M781 M903 M904 Q010

Q020 Q120 Q622

Markush Compounds

199512-D3001-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; D18*R ; P0862 P0839 F41 F44 D01 D63 ; H0317 Polymer Index [1.2] 017 ; G0817*R D01 D51 D54 D56 ; G0022*R D01 D51 D53 F12 H0146 ; G0102*R G0022 D01 D12 D10 D18 D51 D53 H0146 ; G0022*R D01 D51 D53 G0817*R D54 G0975*R D55 H0146 ; H0033 H0011 ; H0088 H0011 ; L9999 L2528 L2506 ; H0135 H0124 ; S9999 S1456*R ; P1741 Polymer Index [1.3] 017 ; ND00 ; ND04 ; K9745*R ; Q9999 Q7330*R ; B9999 B4159 B4091 B3838 B3747 ; B9999 B4682 B4568 ; Q9999 Q7885*R ; Q9999 Q9234 Q9212 ; Q9999 Q9289 Q9212 ; B9999 B3623 B3554 ; B9999 B4239 ; B9999 B5209 B5185 B4740 Polymer Index [1.4] 017 ; D01 D11 D10 D19 D18 D50 D95 F54 D35 ; A999 A248*R ; A999 A771 Polymer Index [2.1] 017 ; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F* 7A ; H0000 ; A999 A782 ; A999 A248*R ; P0511

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-039005

Non-CPI Secondary Accession Numbers: N1995-067450

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L1: Entry 2 of 2

File: DWPI

Nov 2, 2000

DERWENT-ACC-NO: 1998-508471

DERWENT-WEEK: 200062

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TITLE: Thermoplastic moulding material with reduced mould coating properties - includes styrene! and acrylonitrile copolymers, with graft copolymer, lubricants, antistatic and/or mould release agent(s) and a low oligomer content

INVENTOR: ALBERTS, H; ECKEL, T ; EICHENAUER, H ; LEITZ, E ; SARABI, B ; WITTMANN, D ; WITTMAN, D

PATENT-ASSIGNEE:

ASSIGNEE

BAYER AG

CODE

FARB

PRIORITY-DATA: 1997DE-1013509 (April 1, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 726342 B	November 2, 2000		000	C08L055/02
EP 869147 A1	October 7, 1998	G	010	C08L025/12
DE 19713509 A1	October 8, 1998		000	C08L055/02
JP 10279754 A	October 20, 1998		007	C08L025/04
AU 9859378 A	October 15, 1998		000	C08L055/02
CN 1195000 A	October 7, 1998		000	C08L025/08
CA 2233431 A	October 1, 1998		000	C08L055/02
US 5994463 A	November 30, 1999		000	C08G063/48
KR 98080948 A	November 25, 1998		000	C08L025/00
US 6140426 A	October 31, 2000		000	C08F279/02
BR 9801146 A	October 31, 2000		000	C08L009/00

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU 726342B	March 18, 1998	1998AU-0059378	Previous Publ.
AU 726342B		AU 9859378	
EP 869147A1	March 19, 1998	1998EP-0104998	
DE 19713509A1	April 1, 1997	1997DE-1013509	
JP 10279754A	March 26, 1998	1998JP-0096933	
AU 9859378A	March 18, 1998	1998AU-0059378	
CN 1195000A	April 1, 1998	1998CN-0106316	
CA 2233431A	March 27, 1998	1998CA-2233431	
US 5994463A	March 25, 1998	1998US-0047598	
KR 98080948A	March 31, 1998	1998KR-0011256	
US 6140426A	March 24, 1998	1998US-0047254	
BR 9801146A	March 31, 1998	1998BR-0001146	

INT-CL (IPC): B29 C 45/00; B29 C 45/03; C08 F 279/02; C08 G 63/48; C08 J 5/00; C08 J 5/16; C08 K 5/00; C08 L 9/00; C08 L 9/02; C08 L 9/06; C08 L 25/00; C08 L 25/04; C08 L 25/08; C08 L 25/12; C08 L 33/20; C08 L 35/00; C08 L 51/00; C08 L 51/04; C08 L 55/02; C08 L 25/12; C08 L 55/02

ABSTRACTED-PUB-NO: EP 869147A
BASIC-ABSTRACT:

ABS-type thermoplastic moulding materials (I), containing: (A) 5-95 wt.% thermoplastic homo-, co- or ter-polymer(s) of styrene (S), alpha -methylstyrene (AMS), acrylonitrile (AN) and/or N-substituted maleimide;

(B) 5-95 wt.% graft copolymer(s) of (B1) 5-90 pts. wt. monomer(s) as in (A) on (B2) 95-10 pts. wt. rubber with a Tg of at most 0 deg. C; and

(C) 1-10 pts. wt. (per 100 pts. wt. A + B) lubricants, antistatics and/or mould release additives.

Component (A) is obtained by bulk, solution or suspension polymerisation and has an oligomer content of at most 1 wt.%, component (B) is obtained

by emulsion polymerisation, with the total oligomer content of (I) being at most 0.8 wt.%, and the ratio (R) of mol. wt. of additive : wt.% of additive in (I) at least 150.

USE - For the production of injection mouldings, especially high gloss mouldings (claimed).

ADVANTAGE - Provides ABS materials with good processing properties, which can be used to make high-gloss products by injection moulding, without the formation of coatings due to liquid migration or low-viscosity components during moulding and processing.

ABSTRACTED-PUB-NO:

US 5994463A

EQUIVALENT-ABSTRACTS:

ABS-type thermoplastic moulding materials (I), containing: (A) 5-95 wt.% thermoplastic homo-, co- or ter-polymer(s) of styrene (S), alpha -methylstyrene (AMS), acrylonitrile (AN) and/or N-substituted maleimide;

(B) 5-95 wt.% graft copolymer(s) of (B1) 5-90 pts. wt. monomer(s) as in (A) on (B2) 95-10 pts. wt. rubber with a Tg of at most 0 deg. C; and

(C) 1-10 pts. wt. (per 100 pts. wt. A + B) lubricants, antistatics and/or mould release additives.

Component (A) is obtained by bulk, solution or suspension polymerisation and has an oligomer content of at most 1 wt.%, component (B) is obtained by emulsion polymerisation, with the total oligomer content of (I) being at most 0.8 wt.%, and

the ratio (R) of mol. wt. of additive : wt.% of additive in (I) at least 150.

USE - For the production of injection mouldings, especially high gloss mouldings (claimed).

ADVANTAGE - Provides ABS materials with good processing properties, which can be used to make high-gloss products by injection moulding, without the formation of coatings due to liquid migration or low-viscosity components during moulding and processing.

US 6140426A

ABS-type thermoplastic moulding materials (I), containing: (A) 5-95 wt.% thermoplastic homo-, co- or ter-polymer(s) of styrene (S), alpha-methylstyrene (AMS), acrylonitrile (AN) and/or N-substituted maleimide;

(B) 5-95 wt.% graft copolymer(s) of (B1) 5-90 pts. wt. monomer(s) as in (A) on (B2) 95-10 pts. wt. rubber with a Tg of at most 0 deg. C; and

(C) 1-10 pts. wt. (per 100 pts. wt. A + B) lubricants, antistatics and/or mould release additives.

Component (A) is obtained by bulk, solution or suspension polymerisation and has an oligomer content of at most 1 wt.%, component (B) is obtained by emulsion polymerisation, with the total oligomer content of (I) being at most 0.8 wt.%, and the ratio (R) of mol. wt. of additive : wt.% of additive in (I) at least 150.

USE - For the production of injection mouldings, especially high gloss mouldings (claimed).

ADVANTAGE - Provides ABS materials with good processing properties, which can be used to make high-gloss products by injection moulding, without the formation of coatings due to liquid migration or low-viscosity components during moulding and processing.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: THERMOPLASTIC MOULD MATERIAL REDUCE MOULD COATING PROPERTIES
POLYSTYRENE ACRYLONITRILE COPOLYMER GRAFT COPOLYMER LUBRICATE ANTISTATIC MOULD
RELEASE AGENT LOW OLIGOMER CONTENT

DERWENT-CLASS: A18

CPI-CODES: A04-C03; A04-C04B; A04-C05; A04-D03; A04-D08; A08-M03; A08-M03B; A08-S04;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 ; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 ; H0022 H0011 ; L9999 L2517 L2506 ; L9999 L2528 L2506 ; S9999 S1503 S1456 ; P1741 ; P0088 ; P0157
Polymer Index [1.2] 018 ; E01 E00 D75 F72 D59 D22*R D41 D51*R G0760*R G0022 D01 D51 D53 D14 D13 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 ; R00673 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D89 ; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 ; H0317 ; H0022 H0011 ; H0033 H0011 ; H0000 ; L9999 L2573 L2506 ; L9999 L2528 L2506 ; L9999 L2517 L2506 ; S9999 S1503 S1456 ; L9999 L2675 L2506 ; L9999 L2664 L2506 ; P1741 ; P0088 ; P0102 ; P0157 ; P1752 Polymer Index [1.3] 018 ; B9999 B4535 ; B9999 B5094 B4977 B4740 Polymer Index [1.4] 018 ; ND04 ; B9999 B4411 B4400 B4240 ; B9999 B3623 B3554 ; B9999 B3418*R B3372 ; K9745*R ; N9999 N6484*R N6440 Polymer Index [1.5] 018 ; R00899 D01 D11 D10 D50 D88 F48 ; C999 C088*R C000 ; C999 C293 Polymer Index [1.6] 018 ; A999 A340*R ; A999 A602 A566 Polymer Index [1.7] 018 ; R05198 D01 D11 D10 D50 D95 F70 F94 ; R01376 D01 D11 D10 D50 D61 D95 F36 F35 Mg 2A ; A999 A351 A340 Polymer Index [2.1] 018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 H0146 ; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 H0146 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84 ; H0088 H0011 ; H0033 H0011 ; S9999 S1503 S1456 ; L9999 L2528 L2506 ; L9999 L2551 L2506 ; H0124*R ; H0135 H0124 ; P0328 ; P1741 ; P0088 ; P0191 Polymer Index [2.2] 018 ; E01 E00 D75 D41 D59 D51*R F72 G0760*R G0022 D01 D51 D53 D23 D22 H0146 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 H0146 ; R00673 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D89 H0146

; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 H0146 ; S9999 S1503
S1456 ; H0088 H0011 ; H0124*R ; H0011*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;
H0135 H0124 ; H0022 H0011 ; H0033 H0011 ; P1741 ; P0088 ; P0157 Polymer Index [2.3]
018 ; ND04 ; B9999 B4411 B4400 B4240 ; B9999 B3623 B3554 ; B9999 B3418*R B3372 ;
K9745*R ; N9999 N6484*R N6440 Polymer Index [2.4] 018 ; B9999 B5618 B5572 ; N9999
N6699 N6655 Polymer Index [2.5] 018 ; R01737 D00 F48 F60 K* 1A O* 6A S* ; C999
C000*R ; C999 C293 Polymer Index [2.6] 018 ; A999 A340*R ; A999 A602 A566 Polymer
Index [2.7] 018 ; R05198 D01 D11 D10 D50 D95 F70 F94 ; R01376 D01 D11 D10 D50 D61
D95 F36 F35 Mg 2A ; A999 A351 A340

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-153503